

In the Claims:

1. (Original) A method of forwarding a packet to a destination comprising:
examining a header of said packet to determine a private destination address;
determining a private address of a private remote sub-endpoint of a tunnel, said private sub-endpoint being associated with said private destination address;
determining a public address of a public remote sub-endpoint of said tunnel;
encapsulating said packet, resulting in an encapsulated packet, to indicate a public address of a public local sub-endpoint of said tunnel as a source address and said public address of said public remote sub-endpoint of said tunnel as a destination address; and
forwarding said encapsulated packet to a node in a carrier network.
2. (Original) The method of claim 1 wherein said tunnel is a point to multipoint tunnel.
3. (Previously Presented) The method of claim 1 wherein said determining said private address of said private remote sub-endpoint of said tunnel comprises consulting a routing table to discover an address associated with said private destination address of said packet.
4. (Previously Presented) The method of claim 1 wherein said determining said public address of said public remote sub-endpoint of said tunnel comprises consulting a static address resolution protocol table to discover an address associated with said private address of said private remote sub-endpoint of said tunnel.
5. (Original) The method of claim 1 further comprising determining a private address of a first local sub-endpoint of said tunnel.
6. (Previously Presented) The method of claim 5 wherein said determining said private address of said first local sub-endpoint of said tunnel comprises consulting a forwarding table to discover an address associated with said private address of said private remote sub-endpoint of said tunnel.
7. (Cancelled).

8. (Original) A carrier router comprising:
 - a private network interface;
 - a public network interface;
 - a processor operable to:
 - receive a packet at said private network interface;
 - examine a header of said packet to determine a private destination address;
 - determine a private address of a private remote sub-endpoint of a tunnel, said private sub end-point being associated with said private destination address;
 - determine a public address of a public remote sub-endpoint of said tunnel;
 - encapsulate said packet, resulting in an encapsulated packet, to indicate a public address of a public local sub-endpoint of said tunnel as a source address and said public address of said public remote sub-endpoint of said tunnel as a destination address; and
 - forward said encapsulated packet to a node in a public network via said public network interface.
9. (Previously Presented) A computer readable medium containing computer executable instructions which, when performed by a processor in a carrier router, cause the processor to:
 - examine a header of a packet to determine a private destination address;
 - determine a private address of a private remote sub-endpoint of a tunnel, said private sub-endpoint being associated with said private destination address;
 - determine a public address of a public remote sub-endpoint of said tunnel;
 - encapsulate said packet, resulting in an encapsulated packet, to indicate a public address of a public local sub-endpoint of said tunnel as a source address and said public address of said public remote sub-endpoint of said tunnel as a destination address; and
 - forward said encapsulated packet to a node in a carrier network.

10-16. (Cancelled).